

UTILITY PATENT

B & D Docket No. P-US-TN-0387-D

What is claimed is:

1. A device for performing working operations on a workpiece, said device comprising:

a table;

5 a shaft disposed on said table, said shaft having an axis;

a support housing supporting a motor and a working tool driven by said motor, said support housing being disposed on said shaft adjacent to said table, said support housing being axially movable along said shaft and being laterally pivotable about an axis of rotation; and

10 a locking mechanism for locking the support housing at a predetermined lateral position, wherein said locking mechanism comprises a handle disposed on said shaft, said handle being rotatable in two directions with respect to said table, such that, upon rotation of said handle in both directions from a neutral position, the handle urges said support housing into contact with said table.

15 2. The device according to Claim 1, wherein the shaft is rotatable relative to the table.

3. The device according to Claim 2, said locking mechanism further comprises a first camming surface disposed on the table.

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4. The device according to Claim 3, wherein said shaft comprises a second camming surface engaging the first camming surface.

5. The device according to Claim 2, wherein the shaft has a first surface having a first thread disposed thereon in a first orientation, and a second surface having a second thread disposed thereon in a second orientation, said first and second thread intersect forming a V-shaped thread.

6. The device according to Claim 5, wherein the table comprises at least one protrusion slidable along said first and second threads.

7. The device according to Claim 1, wherein the shaft axis is substantially parallel to the axis of rotation.

8. The device according to Claim 1, wherein the shaft axis corresponds to the axis of rotation.

9. The device according to Claim 1, wherein the handle is fixedly disposed on said shaft.

10. The device according to Claim 1, wherein said device is a compound miter saw.